

Bio. 3302, Introduction to Evolution
Evolution Study Guide
Lecture 1: Introduction to Course, Evolution, and Science

Terminology

adaptation
alleles
biological evolution
blending inheritance
conservation genetics
descent with modification
divergence
DNA Barcoding
evolution
floristics
gene flow
herbarium
hypothesis
inheritance of applied characteristics
interactive key
law
macroevolution
Malthusian principle
microevolution
natural selection
phylogenetic tree
population
relict
scientific method
SEM
speciation
systematics
taxonomy
theory

Questions

1. What is the simplest description of biological evolution?
2. How might gene frequencies change in a population?
3. Describe the basic steps for a mechanism of evolution as proposed by Charles Darwin.
4. Describe the basic steps of the Scientific Method.
5. What is a hypothesis?

6. How does one go about testing a hypothesis?
7. How does one know if a hypothesis is correct?
8. What is the difference between a hypothesis and a theory?